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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/720,485	11/25/2003	Robert Weger	BOE01 040	4361
7	590 08/24/2005		EXAMINER	
DUANE MORRIS LLP			NGUYEN, TUYEN T	
Suite 700 1667 K Street,	N.W.		ART UNIT	PAPER NUMBER
Washington, DC 20006			2832	
			DATE MAILED: 08/24/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	V		
	Application No.	Applicant(s)	
	10/720,485	10/720,485 WEGER, ROBERT	
Office Action Summary	Examiner	Art Unit	
	TUYEN T. NGUYEN	2832	
The MAILING DATE of this communication	n appears on the cover sheet with	n the correspondence address	
Period for Reply	EDIVIO OET TO EVOIDE AMO	ANTHUC FROM	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a rejon. a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communicatio NDONED (35 U.S.C. § 133).	
Status		·	
1) Responsive to communication(s) filed on	09 June 2005.		
· · · · · · · · · · · · · · · · · · ·	This action is non-final.		
3) Since this application is in condition for all	lowance except for formal matte	rs, prosecution as to the merits is	
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-15</u> is/are pending in the applica	ation.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa	ıminer.		
10) The drawing(s) filed on is/are: a)] accepted or b) ☐ objected to b	y the Examiner.	
Applicant may not request that any objection to	o the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the c	orrection is required if the drawing(s) is objected to. See 37 CFR 1.121(
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	·		
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		• • • • • • • • • • • • • • • • • • • •	
1. Certified copies of the priority docu	ments have been received.		
2. Certified copies of the priority docu	ments have been received in Ap	pplication No	
3. Copies of the certified copies of the	priority documents have been	received in this National Stage	

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5-6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Fawcett et al. [US 2,975,298]

Fawcett et al. discloses a toroidal structure [figures 5, 6A and 6B] comprising:

- first and second cores [figure 5], wherein the toroidal cores arranged next to each other in such a way that their axes of symmetry are in line and the cores having identical dimensions;
 - at least one first working winding [figure 6A] wound about the first core;
 - at least one second working winding [figure 6B] wound about the second core; and
 - a control winding [5] wound about the first and second cores.

Fawcett et al. inherently discloses the windings, each formed from a single insulated wire.

Regarding claim 8, Fawcett et al. inherently discloses the working windings have essentially the same number of turns and identical wire thicknesses.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fawcett et al. in view of Schafer [US 2004/0140879 A1].

Fawcett et al. discloses the instant claimed invention except for the toroidal cores arranged in a common plane.

Schafer discloses a toroidal transformer comprising two toroidal cores [1, 2] arranged in a common plane.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to arrange the toroidal cores of Fawcett et al. in a common plane, as suggested by Schafer, for the purpose of reducing height.

Claims 3 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fawcett et al. in view of Conway [US 5,012,125].

Fawcett et al. discloses the instant claimed invention except for the specific type of wires for the windings.

Conway discloses a toroidal transformer [figure 7] comprising a toroidal core [121] and at least one winding [131, 132] wound about the toroidal core, wherein the winding formed of litz wire.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use litz wire for the winding of Fawcett et al., as suggested by Conway, for the purpose of providing shielding.

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The specific arrangement of the winding, connections of the windings, thickness of the wire of the windings would have been an obvious design consideration based on the intended applications/environment used and for the purpose of control the inductance.

Claims 7 and 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fawcett et al. in view of Larikka [US 6,583,706].

Fawcett et al. discloses the instant claimed invention except for the windings being evently distributed around the core.

Larikka discloses a toroidal structure [figures 1 and 5] having a winding [3, 6] being evently distributed around a toroidal core [2].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the winding distribution design of Larikka in Fawcett et al. for the purpose of controlling the inductance.

Response to Arguments

Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Zelina [US 2,911,586]; Kleiner [US 4,097,246]; Patton [US 3,123,764] and Brock [US 4,129,820].

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TIW

Touzen T. Nguyen